

Title (en)

Electromagnetic valve actuator for internal combustion engine and engine comprising such an actuator

Title (de)

Elektromagnetischer Aktuator zur Betätigung eines Gaswechselventils an einer Kolbenbrennkraftmaschine und Brennkraftmaschine mit einem solchen Aktuator

Title (fr)

Actionneur électromécanique de soupape pour moteur à combustion interne et moteur à combustion interne muni d'un tel actionneur

Publication

EP 1450013 A3 20050330 (FR)

Application

EP 04300086 A 20040217

Priority

FR 0301944 A 20030218

Abstract (en)

[origin: EP1450013A2] The actuator (301) has a polarized electromagnet (300) and a mobile magnet plate (302) subjected to a mechanical action. A control unit controls a magnetic field generated by the polarized electromagnet so that, when the plate approaches the electromagnet, the magnetic field exerts a magnetic action on the plate to compensate the mechanical action so as to maintain the plate at a distance from the electromagnet. An independent claim is also included for an internal combustion engine equipped with an electromagnetic actuator for the valve.

IPC 1-7

F01L 9/04

IPC 8 full level

F01L 9/20 (2021.01); **F16K 31/06** (2006.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US); **F01L 2009/4086** (2021.01 - EP US)

Citation (search report)

- [X] US 6198370 B1 20010306 - SCHMITZ GUENTER [DE]
- [A] EP 1174595 A1 20020123 - PEUGEOT CITROEN AUTOMOBILES SA [FR]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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